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Impulse Telecommunications Corporation

12720 Hillcrest Road, Suite 1020 Dallas, Texas 75230 (214) 490-8847 • FAX (214) 490-9061

June 2, 1994

JUN 2 1994

Mr. William F. Caton

Acting Secretary

Federal Communications Commission
1919 M Street, N.W., Room 222

Washington, D.C. 20554

STOP CODE: 1170

Re: Ex Parte Presentation in PP Docket No. 93-253

Dear Mr. Caton:

This notice is given as required by Section 1.1206(a)(2) of the Commission's rules. An original and one copy of this letter and its attachments are being filed.

This morning, the undersigned, other executives of Impulse Telecommunications, Inc. ("Impulse"), and its counsel met with Robert Gipps, Deputy Chief, Office of Plans and Policy, to discuss Impulse's positions regarding the above-referenced proceeding. In particular, Impulse emphasized the need for the FCC to adopt rules that give small businesses the ability to raise capital and participate meaningfully in auctions for broadband Personal Communications Services. Impulse underscored the need for small businesses to have the opportunity to bid for 30 MHz licenses defined by Basic Trading Areas.

Attached hereto is a copy of documents made available during the meeting, which outline Impulse's presentation.

If there are any questions regarding this matter, please contact the undersigned.

Respectfully submitted,

Edward E. Jungerman

President

Attachments

cc: Robert Gipps (w/o att.)

No. of Copies rec'd

SWMR Participation in Broadband PCS

PP Docket No. 93-253
June 2, 1994

Edward E. Jungerman, President C. Jackson Pfeffer, Vice President Lewis S. White, Vice President

Impulse Telecommunications Corporation

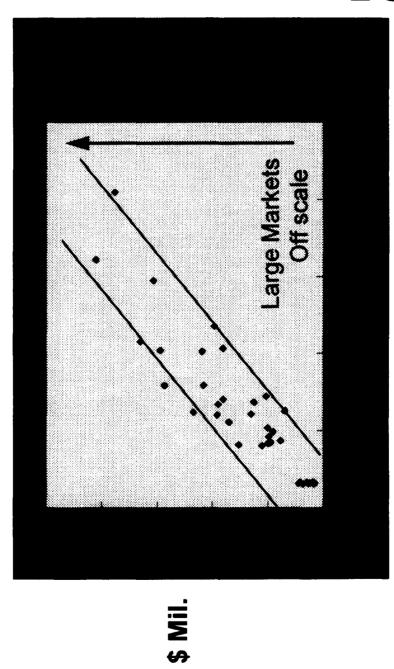
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Impulse Telecommunications Corporation

- * A Small Business
- Since 1986
 - Strategic Consulting & Engineering
- * Since 1990: PCS Focus
 - Strategic & Business Planning
 - Systems Design & Engineering
 - Market Research
 - Regulatory Support
 - Wireless Industry Simulation Tool (WIST)
- Support to over 60 Clients

Impulse has PCS Expertise

Representative BTA License Values



Population (thousands)

Major Market Values are High

Giants can Justify Huge Bids

- Billions of Capital
 - AT&T/ McCaw
 - Bell/ Atlantic/ TCI
 - MCI/British Tel
- Strategic Value
 - Critical wireless access
 - Deny market to competitor
- In-place Assets Permit Incremental Analysis
 - Admin., billing, operations, marketing
 - Other business interests
 - Existing facilities

Giants can Justify Huge Bids

Billions of Capital

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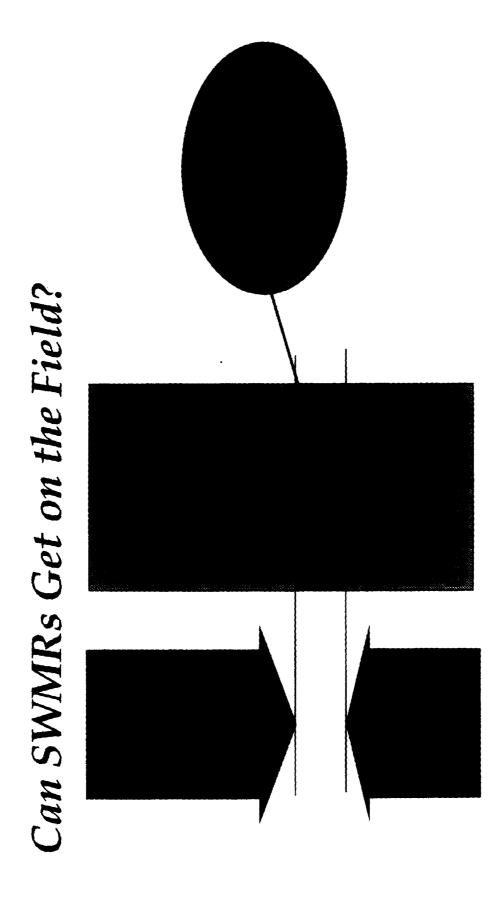
Example: AT&T/	McCaw
Offer	\$12.6
Liab. assumed	<u>8.5</u>
	21.1
Assets acquired	<u>(3.5</u>)
Net intangible	\$17.6
	Billions

Bidding Against Giants

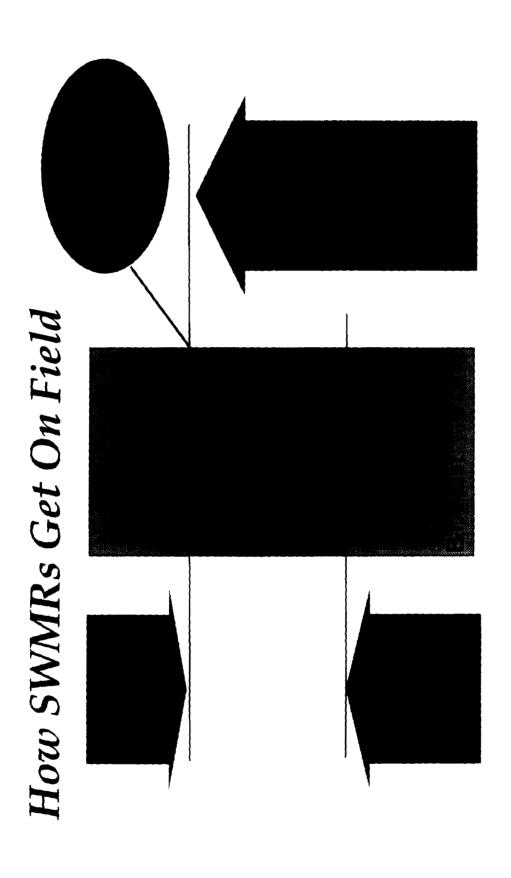
- * SWMR Risk capital: 35% IRR (or more) required
- Giants cost of capital: 12 to 15%
- * Giants have access to abundant debt & equity
- Conclusion: SWMRs need help to bid successfully

SWMR Requirements for Participation

- Need 20 30 MHz to be Viable
 - 10 MHz cannot compete with cellular
- Need Access to Larger BTA Markets
 - Support multi-party competition
 - Cost threshold
 - Attract capital
 - Facilitate national SWMR "Roamer" cooperation



SWMR Participation Very Limited



Revised Rules = Enhanced SWMR opportunity

Proposed Solutions

- Reduce Down Payment for Small Business
- Allow Pre-arranged Financing Commitments
- Change Small Business Definition
- Adopt Unjust Enrichment Protections

Solutions - Debt

Reduce Down Payment for Small Business

- FCC adopted 20 % for Narrowband PCS
- Broadband PCS bids will be far higher
- Recommend 5% down payment
- Recommend 36 month installment moratorium

* Benefits

- Permits SWMRs with equity to compete with giants
- For Government:
 - More bidding competition
 - Increased auction revenues

Solutions - Equity

Allow Pre-arranged Financing Commitments

- Should not affect "small business" status
- Modify affiliation rules:
 - No ultimate source greater than 10%
 - Look through financing structure to ultimate source (Affiliation rules apply <u>only</u> to ultimate source)
- Exempt convertible securities exercisable after 5 years

* Benefits

- Gives SWMR access to equity
- Prevents abuse by giants

Solutions - Bidding Power

Change Small Business Definition

- \$6 Million net worth test limits access to equity
- Net worth test unfair to established small businesses
- Substitute revenue (\$40 M?) for net worth test

Benefits

- Attracts equity capital
- Allows sufficient "critical mass" to compete
- Prevents abuse by giants

("Affiliate" revenues disqualify)

Solutions - Abuse

Adopt Unjust Enrichment Protections

- Prohibit transfer of license before 5 years
- Recover <u>full</u> <u>value</u> of any and all preferences
- Collect interest on the preference value

Benefits

- Prevents giants from benefiting from preferences
- Encourages SWMRs to build viable businesses

•	PCS Comm, 20 MHz	, BTA		Run:	35.0%	2004 IRR	on seed	equity F	CS Con	nm, 20 M	Hz, BTA						
Cash Flow Statement		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Operating Sources																	
EBITDA		-2.3	-8.2	-9.1	-8.3	-6.1	-2.8	1,1	5.0	9.2	13.6	18.2	23.0	28.1	33.4	38,5	43.6
Operating (Uses)																	
Minimum Cash		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Accounts Receivable		0.0	0.0	-0.1	-0.3	-0.6	-0.7	-0.8	-0.8	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
Other Current Assets		-0.1	-0.4	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Current Liabilities (Excl S	TD)	0.2	0.5	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Operating Working Cap	pital	0.0	0.1	0.0	-0.2	-0.4	-0.6	-0.7	-0.7	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
Capital Expenditures		-1.8	-6.1	-3.5	-1.6	-2.0	-0.2	-1.5	-2.1	-2.4	-2.5	-2.9	-3.2	-3.4	-3.5	-3.5	-3.5
Other		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Intangible - License		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Operating U	lses	-1.8	-6.0	-3.4	-1.8	-2.4	-0.8	-2.2	-2.9	-3.2	-3.3	-3.7	-4.0	-4.3	-4.3	-4.3	-4.3
Net Cash From Operations		-4.0	-14.2	-12.6	-10.0	-8.5	-3.6	-1.1	2.1	6.0	10.3	14.4	19.0	23.8	29.1	34.1	39.2
Financing (Uses)																	
Interest Expense		-2.4	-2.5	-2.8	-2.7	-2.5	-2.2	-1.8	-1.6	-1.4	-1.1	-0.7	-0.6	-0.4	-0.1	-0.1	-0.1
Principal Repayment, Lici		0.0	0.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	0.0	0.0	0.0	0.0	0.0	0.0
Principal Repayment, Equ		0.0	0.0	-0.3	-1.9	-2.1	-2.3	-2.3	-2.2	-1.4	-1.7	-1.3	-1.1	-0.8	-0.8	-0.6	-0.3
Principal Repayment, Sho	ort Term Debt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.4	-3.4	0.0	0.0	0.0	0.0
Taxes - current		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.5	-12.1	-15.3
Dividends		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Financing U	lses	-2.4	-2.5	-8.2	-9.6	-9.6	-9.5	-9.1	-8.8	-7.8	-7.8	-4.4	-5.1	-1.2	-10.4	-12.8	-15.7
Cash Surplus (Requirement) Financing Sources	-113	-6.4	-16.7	-20.7	-19.6	-18.1	-13.1	-10.3	-6.7	-1.8	2.4	10.0	13.9	22.6	18.7	21.3	23.6
Short-Term Debt		0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Long-Term Debt - C	apital Equipment	1.6	5.5	3.1	1.4	1.8	0.1	1.3	1.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Equity	19 km (19 km) 89 km (1	4.8	11.3	17.6	18.2	16.3	12.9	6.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Financing Sour	rces	6.4	16.7	20.7	19.6	18.1	13.1	10.3	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHANGE IN CASH SURPLUS	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.4	10.0	13.9	22.6	18.7	21.3	23.6
Change in Minimum Cast	•	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beginning Cash		0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.5	3.0	13.0	26.9	49.5	68.2	89.5
ENDING CASH		0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.5	3.0	13.0	26.9	49.5	68.2	89.5	113.1

All values in \$M

Assumed bid:	\$50 1
Financing needs until positive	
cash flow:	\$113N
New equity requirements:	\$894

	PCS Comm, 20 MHz,	ВТА		Run:	35.0%	2004 IRR	on seed	equity (CS Con	ım, 20 M	Hz, BTA						
Traffic and Plant Summary																	
Subscriber Activity		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Coverage	% рор	0%	47%	69%	78%	88%	88%	68%	88%	88%	88%	88%	88%	88%	88%	88%	88%
Subscribers	K	0	0	1	5	11	19	26	35	44	53	63	72	82	91	101	110
Penetration	% рор	0.0%	0.0%	0.1%	0.3%	0.6%	0.9%	1.3%	1.7%	2.1%	2.5%	2.9%	3.3%	3.7%	4.0%	4.4%	4.7%
Churn loss	K	O	G	0	1	4	7	10	12	14	15	17	19	21	. 23	24	26
Gross adds	K	0	0	1	5.	10	15	18	20	23	25	27	29	30	32	34	36
Net adds	K		0	1	4	6	- 8	8	8	9	9	10	10	10	10	9	9
Churn rate	% per month				3.2%	4.3%	4.0%	3.7%	3.2%	2.9%	2.6%	2.5%	2.3%	2.2%	2.2%	2.1%	2.1%
Subscriber growth rate	% yr-yr				420%	119%	70%	41%	32%	26%	21%	18%	15%	13%	12%	10%	9%
System Traffic		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Local air time per subscriber	min/mo	0	0	247	249	251	255	259	263	268	273	279	284	289	294	300	305
Toll air time per subscriber	min/mo	0	0	9	11	13	14	15	15	15	15	15	15	15	15	15	15
Total air time	min/mo	Ö	0	256	260	264	269	274	278	284	289	294	299	305	310	315	320
Monthly total air time	M min/mo	ŏ	0	0	1	3	5	7	10	12	15	18	22	25	28	32	35
Busy Hour air time	K Erlangs	0.0	0.0	0.0	0.1	0.3	0.6	0.8	1.1	1.4	1.7	2.1	2.5	2.8	3.2	3.6	4.0
		- 77°.			59	59	58	58	58	58	58		58			59	
Calls per subscriber	Calls/mo			60			1	2	2	3		58 4	.41.44	58	58	59 6	59
Monthly total calls	M Calls/mo	. 0	. 0	0	0	1	7				.3		4	5	5		6
Busy Hour calls	K Calls/hour	0	0	0	2	4	,	10	. 14	17	21	25	28	32	36	40	44
IN messages	avg msg/cati	0.0	0.0	0.8	1.0	1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Monthly total messages	M msg/mo	0	0	Q	0	1	1	2	3	4	4	5	6	7	8	8	9
Busy hour messages	K mag/hour	O	0	. 1	3	7	12	17	22	27	32	38	44	49	55	61	66
System Equipment		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Outdoor channels	K	0.0	0.6	1.0	1.2	1.4	- 1.4	1.8	2.2	2.8	3.3	3.9	4.6	5.3	6.0	6.7	7.5
Subscribers per channel	#		0	1	4	8	13	15	16	16	16	16	16	15	15	15	15
Outdoor cells		0	26	42	49	58	58	58	58	58	58	62	68	77	86	96	107
Average channels/cell			24	24	24	24	25	30	38	47	57	64	68	69	70	70	70
Average cell area	są km	0	. 0	88	170	196	303	303	303	303	303	286	260	230	206	184	165
Indoor picocells		0	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0	O
Cell to BSC links (T1s)		0	31	49	58	69	. 70	86	109	135	163	193	226	260	295	330	367
Base Station Controllers		. 0	3	5	6	7	7	7	7.	7		. 7	. 7	7	7	7	7
Cetts per BSC			9	. 8	8	8	8	8	. 8	8	8	9	10	11	12	14	15
BSC to Switch links (T1s)		0	31	49	58	69	70	86	109	135	163	193	226	260	295	330	367
Switches	i de la desta d La desta de la	0	1	1	1	1	1		1	1	1	1	1	1	1	1	1
Switch ports	K	0.0	1.5	2.4	2.8	3.3	3.4	4.1	5.2	6.5	7.8	9.3	10.8	12.5	14.1	15.9	17.6
STP links (56 kbps)	# 1	0	. 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
subs/switch port			0	0	2	3	6	6	7	7	7	7	7	7	6	6	6
Annual Capital Equipment Costs		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Cell equipment	\$M	1.6	3.2	2.8	1.2	1.6	0.1	1.0	1.5	1.7	1.8	2.1	2.4	2.7	2.7	2.8	2.8
BSC equipment	\$M	0.2	0.5	0.5	0.2	0.2	0.0	0.3	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4
Switch equipment	\$M	0.0	1.4	0.2	0.1	0.1	0.0	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total capital equipment	\$M	1.8	6.1	3.5	1.6	2.0	0.2	1.5	2.1	2.4	2.5	2.9	3.2	3.4	3.5	3.5	3.5
Average cost per growth sub				3590	382	331	21	193	254	271	274	305	333	357	363	373	378
Depreciation on capi		0.3	1.1	1.6	1.8	2.1	2.2	2.4	2.4	1.9	1.8	1.9	2.1	2.6	2.9	3.1	3.2
Cumulative capital equipment	costs \$M	1.8	7.9	11.4	12.9	14.9	15.1	16.6	18.7	21.1	23.7	26.6	29.8	33.2	36.7	40.2	43.8
Average cost		\$1	\$4	\$6	\$7	\$8	\$8	82	\$9	\$10	\$11	\$12	\$14	\$15	\$16	\$17	\$19
Average cost per busy hour				404.3	86.9	45.1	26.4	20.2	17.0	15.0	13.6	12.7	12.1	11.7	11.4	11.1	10.9
	per cell \$K		302	272	264	255	258	283	320	361	405	430	437	432	426	418	409